IN THE CLAIMS:

Please enter the following cancellations, amendments and/or additions:

Claims 1-22. (Cancelled).

Claim 23. (Currently Amended) An isolated DNA molecule encoding a protein comprising an amino acid sequence selected from the group consisting of:

(a) an amino acid sequence represented by SEQ ID NO:1;

(b) an amino acid sequence represented by SEQ ID NO:1, which contains ~~an~~ a single amino acid substitution therein, wherein said protein converts acetophenone to an optically active 1-phenylehtylamine in the presence of a racemic mixture of sec-butylamine;

(c) an amino acid sequence encoded by nucleotides 1 to 1017 of the nucleotide sequence represented by SEQ ID NO:2;

(d) an amino acid sequence having ~~60%~~ 90% or greater amino acid identity with the amino acid sequence represented by SEQ ID NO:1;

(e) an amino acid sequence having ~~80%~~ 90% or greater amino acid sequence identity with the amino acid sequence represented by SEQ ID NO:1, wherein said protein converts acetophenone to an optically active 1-phenylethylamine in the presence of a racemic mixture of sec-butylamine and has a MW of about 37 kDa as a monomer; and

(f) an amino acid sequence having ~~60%~~ 90% or greater amino acid identity with the amino acid sequence represented by SEQ ID NO:1, wherein said protein converts acetophenone to an optically active 1-phenylehtylamine in the presence of a racemic mixture of sec-butylamine, and wherein said protein is obtainable from a *Mycobacterium*.

Claim 24. (Previously Presented) An isolated DNA molecule comprising a nucleotide sequence selected from the group consisting of:

(a) a nucleotide sequence comprising nucleotides 1 to 1017 of the nucleotide sequence represented by SEQ ID NO:2; and,

(b) a nucleotide sequence comprising nucleotides 1 to 1017 of the nucleotide sequence represented by SEQ ID NO:2, which contains a nucleotide substitution of adenine to guanine at nucleotide 4;

(c) a nucleotide sequence of about 1020 bp which is amplified by PCR using as primers:

(i) an oligonucleotide comprising nucleotides 1 to 28 of the nucleotide sequence represented by SEQ ID NO:2; or an oligonucleotide comprising the nucleotide sequence represented by SEQ ID NO:11, and

(ii) an oligonucleotide comprising a nucleotide sequence complementary to

the nucleotide sequence comprising nucleotides 999 to 1020 of the nucleotide sequence represented by SEQ ID NO:2, and

as a template,

(iii) chromosomal DNA obtained from a *Mycobacterium* and which encodes a protein which converts acetophenone to an optically active 1-phenylethylamine in the presence of a racemic mixture of sec-butylamine.

Claim 25. (Previously Presented) An isolated DNA molecule comprising nucleotides 1 to 1017 of the nucleotide sequence represented by SEQ ID NO:2.

Claim 26. (Previously Presented) An isolated DNA molecule comprising nucleotides 1 to 1017 of the nucleotide sequence represented by SEQ ID NO:2, which contains a nucleotide substitution of adenine to guanine at nucleotide 4.

Claim 27. (Previously Presented) An isolated DNA molecule comprising a promoter operably linked to the isolated DNA molecule of Claim 23.

Claim 28. (Previously Presented) A vector comprising the isolated DNA molecule Claim 23.

Claim 29. (Previously Presented) A transformant obtainable by transducing the isolated DNA molecule of Claim 23 into a host cell.

Claim 30. (Previously Presented) A transformant obtainable by transducing the vector of Claim 28 into a host cell.

Claim 31. (Previously Presented) The transformant according to Claim 29 or Claim 30, wherein the host cell is a microorganism cell.

Claim 32. (Previously Presented) A method for producing a transformant, comprising transducing the isolated DNA molecule of Claim 23 or the vector of Claim 28, into a host cell.

Claim 33. (Previously Presented) A method for producing a protein which converts acetophenone to an optically active 1-phenylethylamine in the presence of a racemic mixture of sec-butylamine comprising culturing a microorganism comprising the isolated DNA molecule of Claim 23 under suitable conditions to produce said protein.

Claim 34. (Currently Amended) ~~The~~ A method for producing a protein which converts acetophenone to an optically active 1-phenylethylamine in the presence of a racemic mixture of sec-butylamine comprising culturing ~~according to Claim 33 wherein said microorganism is the~~a transformant obtainable by transducing the isolated DNA molecule of Claim 23 under suitable conditions to produce said protein~~of Claim 29 or 30~~.

Claim 35. (New) A method for producing a protein which converts acetophenone to an optically active 1-phenylethylamine in the presence of a racemic mixture of sec-butylamine comprising culturing the transformant obtainable by transducing the vector of Claim 28 under suitable conditions to produce said protein.